JIEJIE MICROELECTRONICS CO., LTD.

JEFR0308SC EPI FAST SOFT RECOVERY RECTIFIER

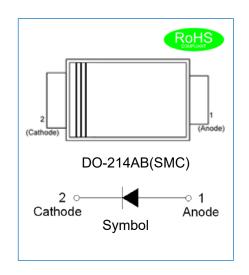
Rev.1.2

DESCRIPTION

- Plastic package has underwriters laboratory flammability classification 94V-0
- ♦ Lead free in comply with EU RoHS 2011/65/EU directives
- ♦ Low reverse leakage current
- ♦ Fast recovery time and soft recovery characteristics
- ♦ Low recovery loss

MECHANICAL DATA

- ♦ Case: JEDEC DO-214AB molded plastic
- ♦ Terminals: Solder plated, solderable per J-STD-002
- ♦ Weight:0.26gram



ABSOLUTE MAXIMUM RATING (Rating at 25℃ case temperature unless otherwise specified.)

Parameter	Symbol	JEFR0308SC	Unit
Maximum repetitive peak reverse voltage	V _{RRM}	800	V
Maximum DC blocking voltage	V _{DC}	800	V
Maximum average forward current	I _{F(AV)}	3.0	Α
Peak forward surge current: 8.3ms single half sine-wave superimposed on rated load	IFSM	125	А
Operating junction and storage temperature range	T_{j}, T_{stg}	-55 to +150	$^{\circ}\! \mathbb{C}$

ELECTRICAL CHARACTERISTICS(Rating at 25°C case temperature unless otherwise specified.)

Parameter		Symbol	Min.	Тур.	Max.	Unit
Forward voltage	I _F =3A	VF	-	-	1.7	V
	V _R =800V,T _j =25℃		-	-	5	
Reverse current	V _R =800V,T _j =150°C	I _R	-	-	200	μΑ
Reverse recovery time	I _F =0.5A, I _R =1A, I _{rr} =0.25A	t _{rr}	-	-	75	ns

THERMAL RESISTANCES

Symbol	Parameter	JEFR0308SC	Unit
R _{th(j-L)}	Junction to lead	15	°C/W

Note1: Thermal resistance from junction to lead mounted on P.C.B. with 8.0 mm x 8.0 mm copper pad areas.

MARKING



FR	Fast Recovery Rectifier	
03	I _{F(AV)} =3A	
08	V _{RRM} :800V	

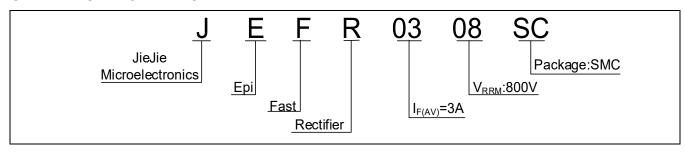
 $\underline{\mathbf{x}}$ H1: Month, 1、2、3 \sim 9、A、B、C

3<u>x</u>1:

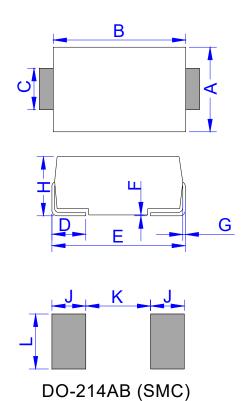
2018	2019	2020	2021	2022	2023	2024
Н	I	J	K	L	М	N
2025	2026	2027	2028	2029	2030	
0	Р	Q	R	S	Т	

3Hx: Batch number

ORDERING INFORMATION

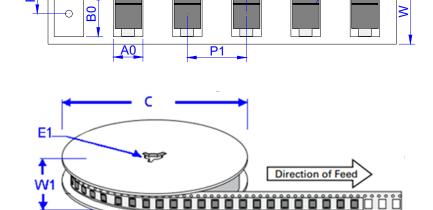


PACKAGE MECHANICAL DATA



	Dimensions				
Ref.	Millimeters		Inches		
	Min.	Max.	Min.	Max.	
Α	5.75	6.25	0.226	0.246	
В	6.90	7.40	0.272	0.291	
С	2.75	3.25	0.108	0.128	
D	0.95	1.52	0.037	0.060	
Е	7.70	8.20	0.303	0.323	
F	0.051	0.203	0.002	0.008	
G	0.15	0.31	0.006	0.012	
Н	2.15	2.62	0.085	0.103	
J	2.40		0.094		
K		4.20		0.165	
L	3.30		0.130		

TAPE AND REEL SPECIFICATION-SMC

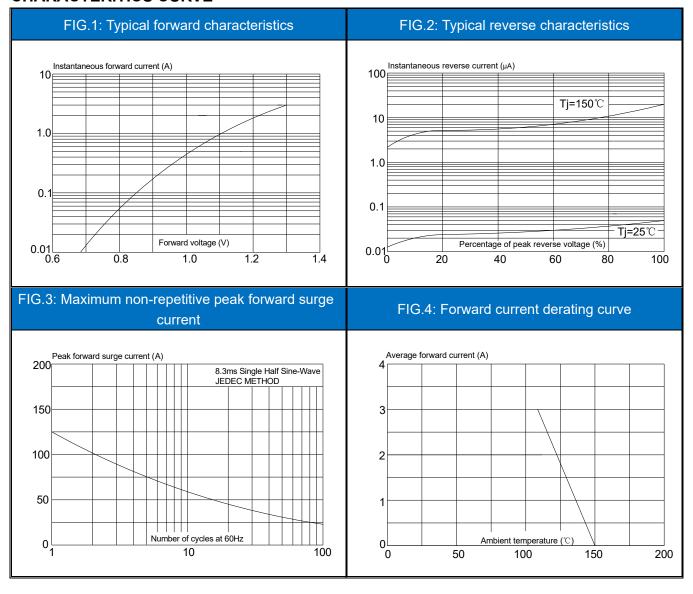


D (Dimensions			
Ref.	Millimeters	Inches		
A0	6.05 ± 0.3	0.238 ± 0.012		
В0	8.31 ± 0.3	0.327 ± 0.012		
С	330.0	13.0		
D0	1.55 ± 0.1	0.061 ± 0.004		
E	1.75 ± 0.2	0.069 ± 0.008		
E1	13.3 ± 0.3	0.524 ± 0.012		
F	7.50 ± 0.2	0.295 ± 0.008		
P0	4.00 ± 0.2	0.157 ± 0.008		
P1	8.00 ± 0.2	0.3145 ± 0.008		
P2	2.00 ± 0.2	0.079 ± 0.008		
W	16.0 ± 0.2	0.630 ± 0.008		
W1	19.7 ± 2.0	0.776 ± 0.079		

OUTLINE	UNIT WEIGHT (g/PCS) typ.	REEL (PCS)	PER CARTON (PCS)	REEL DIAMETERS (mm)
TAPING	0.26	3,000	48,000	330

Cathode

CHARACTERITICS CURVE





JieJie products are not designed for, and shall not be used for, any purpose (including, without limitation, automotive, military, aerospace, medical, life-saving, life-sustaining or nuclear facility applications, devices intended for surgical implant into the body, or any other application in which the failure or lack of desired operation of the product may result in personal injury, death, or property damage) other than those expressly set forth in applicable JieJie product documentation. Warranties granted by JieJie shall be deemed void for products used for any purpose not expressly set forth in applicable JieJie documentation. JieJie shall not be liable for any claims or damages arising out of products used in applications not expressly intended by JieJie as set forth in applicable JieJie documentation. The sale and use of JieJie products is subject to JieJie terms and conditions of sale, unless otherwise agreed by JieJie. Information furnished in this document is believed to be accurate and reliable. However,

Information furnished in this document is believed to be accurate and reliable. However, Jiangsu JieJie Microelectronics Co., Ltd. assumes no responsibility for the consequences of use without consideration for such information nor use beyond it.

Information mentioned in this document is subject to change without notice, apart from that when an agreement is signed, Jiangsu JieJie complies with the agreement.

Products and information provided in this document have no infringement of patents. Jiangsu JieJie assumes no responsibility for any infringement of other rights of third parties which may result from the use of such products and information.

This document is the 1.2nd version which is made in 10-July-2025. This document supersedes and replaces all information previously supplied.

is a registered trademark of Jiangsu JieJie Microelectronics Co., Ltd. Copyright ©2025 Jiangsu JieJie Microelectronics Co., Ltd. Printed All rights reserved.